

PRELIMINARY AMENDMENT
New U.S. Application for PCT/JP99/05266

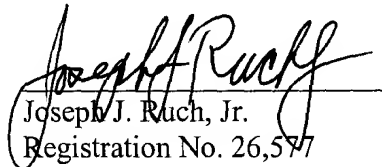
REMARKS

Claims 4, 5, 6, 7, 8, 9, 10, 13, 14, 42, 47, 50, and 53 have been amended to place the claims in desired appropriate form for examination. Thus all of the claims are now in appropriate form, and the Examiner is respectfully requested to proceed with the examination.

Early favorable action is earnestly solicited.

In the event that the Examiner believes that it may facilitate the further prosecution of this application, the Examiner is invited to contact the undersigned attorney at the local Washington, D.C. telephone number indicated below.

Respectfully submitted,


Joseph J. Ruch, Jr.
Registration No. 26,577

SUGHRUE, MION, ZINN,
MACPEAK & SEAS, PLLC
2100 Pennsylvania Avenue, N.W.
Washington, D.C. 20037-3213
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

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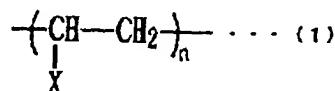
APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

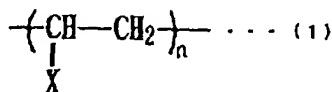
The claims are amended as follows:

4. The multilayer printed circuit board according to ~~any of Claims~~ Claim 1 to ~~3~~ wherein said polyolefin resin is a resin composed of one species of the repeating unit represented by the following chemical formula (1) or a resin comprising a copolymer of two or more different species of the repeating unit represented by said formula (1)



wherein n represents 1 to 10000; X represents a hydrogen atom, an alkyl group, a phenyl group, a hydroxyl group, an unsaturated hydrocarbon residue having 2 to 3 carbon atoms, an oxide group or a lactone group.

5. The multilayer printed circuit board according to ~~any of Claims~~ Claim 1 to ~~4~~ wherein said polyolefin resin is a resin which has a repeating unit represented by the following chemical formula (1) and contains a double bond, an oxide structure, a lactone structure or a mono- or polycyclopentadiene structure in its backbone chain.



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wherein n represents 1 to 10000; X represents a hydrogen atom, an alkyl group, a phenyl group, a hydroxyl group, an unsaturated hydrocarbon residue having 2 to 3 carbon atoms, an oxide group or a lactone group.

6. A multilayer printed circuit board wherein the polyolefin resin is a mixed resin of two or more species of the polyolefin resin according to Claim 4 ~~or~~ 5, a resin composed of two or more polyolefin resin crosslinked to one another according to Claim 4 ~~or~~ 5, or a mixed resin comprising a polyolefin resin selected from the polyolefin resin according to Claim 4 ~~or~~ 5 and a thermosetting resin.

7. The multilayer printed circuit board according to ~~any of Claims~~ Claim 1 to 6 wherein said conductor circuit is constructed on the resin insulating layer by way of a metal layer composed of at least one metal selected from among the metals (exclusive of Cu) of the 4th to 7th periods in Group 4A through Group 1B of the long-form periodic table of the elements, Al and Sn.

8. The multilayer printed circuit board according to ~~any of Claims~~ Claim 1 to 6 wherein said metal layer is disposed on a flat and level resin insulating layer.

9. The multilayer printed circuit board according to ~~any of Claims~~ Claim 1 to 8 wherein said resin insulating layer has a surface obtained by plasma treatment or corona discharge treatment.

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10. The multilayer printed circuit board according to ~~any of Claims~~ Claim 1 ~~to 9~~ wherein said substrate board is a board carrying the conductor circuit on its surface or inside.

13. The multilayer printed circuit board according to Claim 11 ~~or 12~~ wherein said cycloolefin resin is a homopolymer or copolymer of 2-norbornene, 5-ethylidene-2-norbornene and/or any of their derivatives.

14. The multilayer printed circuit board according to ~~any of Claims~~ Claim 11 ~~to 13~~ wherein said cycloolefin resin is a thermosetting cycloolefin resin.

42. The process for constructing a conductor circuit according to ~~any of Claims~~ Claim 38 ~~to 41~~ wherein said acid etching solution is an aqueous solution of sulfuric acid, an aqueous solution of hydrogen chloride or an aqueous mixed solution of sulfuric acid and hydrogen peroxide.

47. The process for manufacturing a multilayer printed circuit board according to ~~any of Claims~~ Claim 43 ~~to 46~~ wherein said acid etching solution is an aqueous solution of sulfuric acid, an aqueous solution of hydrogen chloride or an aqueous mixed solution of sulfuric acid and hydrogen peroxide.

50. The method of forming a metal film according to Claim 48 ~~or 49~~ wherein the concentration of said reducing acid solution is 4.0 to 8.0 mol/L.

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